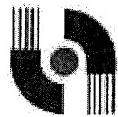


MULTIMEDIA



UNIVERSITY

STUDENT ID NO

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FINAL EXAMINATION

TRIMESTER 1, 2017/2018

BCN2314 – COMPUTER NETWORK AND INTERNET COMPUTING (All sections / Groups)

23 OCTOBER 2017
9.00 a.m – 11.00 a.m
(2 Hours)

INSTRUCTIONS TO STUDENTS

1. This question paper consists of 3 pages (including cover page) with 4 questions only.
2. Attempt ALL FOUR questions. All questions carry equal marks and the distribution of the marks for each question is given.
3. Please print all your answers in the Answer Booklet provided.

Question 1 (25 Marks)

- a) OSI is Open Systems Interconnection Reference Model set by the International Organization of Standards. Explain the usage of OSI Model for protocol developers. (2 Marks)
- b) List down **SEVEN (7)** layers of OSI Model. (7 Marks)
- c) Explain the function each of the **SEVEN (7)** layers. (16 Marks)

Question 2 (25 Marks)

- a) State the differences Between PC and a NOS. (6 Marks)
- b) List **FIVE (5)** features to consider when selecting a NOS. (10 Marks)
- c) Explain the benefits of Linux Operating System? (4 Marks)
- d) What is a domain in windows server-based networks and domain interface in Windows NT and Windows 2000 respectively? (5 Marks)

Question 3 (25 Marks)

- a) Explain the terms socket, UDP service and TCP service in socket programming? (6 Marks)
- b) Explain the steps for UDP to send a message over the Internet? Draw a flowchart to show message transfer from server to client side. (10 Marks)
- c) Write the coding in java server that include the following:
 - i. Create datagram socket at port 9876
 - ii. Create space for received datagram
 - iii. Receive datagram
 - iv. Get IP address, port number of sender
 - v. Create datagram to send to client
 - vi. Write out datagram to socket.(9 Marks)

Question 4 (25 Marks)

- a) Write the HTML tag for the descriptions given below:
 - i. This tag defines the document type and HTML version.
 - ii. Whenever you use this tag, anything following it starts from the next line.
 - iii. This tag creates a line from the current position in the document to the right margin and breaks the line accordingly.
Continued...
 - iv. This tag encloses the complete HTML document.

- v. This tag represents a table cell. (5 marks)
- b) Write HTML code to display a title “Using Image in Webpage”, display a text “Simple Image Insert” and insert an image “Test Image”. (10 marks)
- c) Based on the HTML code, write the output. (10 marks)

```
<!DOCTYPE html>
<html>
```

```
<head>
```

```
    <title>Final Exam</title>
```

```
</head>
```

```
<body>
```

```
    <p><center><h1><u> STUDENT LIST </u></h1></center></p><hr>
```

```
    <table border = "4" cellpadding = "5" cellspacing = "5"
```

```
        bordercolor = "green" bgcolor = "yellow">
```

```
        <tr>
```

```
            <th>Name</th>
```

```
            <th>Student ID</th>
```

```
            <th>Program</th>
```

```
        </tr>
```

```
        <tr>
```

```
            <td>John</td>
```

```
            <td>1234</td>
```

```
            <td>Bac Comp Sc</td>
```

```
        </tr>
```

```
        <tr>
```

```
            <td>Johnny</td>
```

```
            <td>5678</td>
```

```
            <td>Bac Financial Eng</td>
```

```
        </tr>
```

```
        <tr>
```

```
            <td>Johnathan</td>
```

```
            <td>9876</td>
```

```
            <td>Bac Management</td>
```

```
        </tr>
```

```
    </table><hr>
```

```
</body>
```

```
</html>
```

End of page